

2. A manifold assembly according to claim 1 wherein said hot water inlet is a high flow proportional solenoid valve responsive to a control signal generated by said control electronics.
3. A manifold assembly according to claim 1 wherein said cold water inlet is a high flow proportional solenoid valve responsive to a control signal generated by said control electronics.
4. A manifold assembly according to claim 1 wherein said mixed output would be directed to either an outlet, or one or more additional solenoid valves to direct the flow of said mixed water output.
5. A manifold assembly according to claim 1 wherein said mixing device is selected from the group consisting of an in-line mixing fixture to disrupt the flow of water and cause turbulence, a passive agitator that moves with the flow of water, or a motor driven assembly.
6. A manifold assembly according to claim 1 wherein said temperature sensor is selected from the group consisting of a thermocouple, a thermistor, a resistance temperature detector (RTD), an integrated circuit temperature sensor, or a fluid-pressure transducer.
7. A modular control device according to claim 1 wherein said user interface comprises a series of buttons and displays.
8. A user interface according to claim 7 wherein said buttons are inputs to the control electronics for setting desired temperature, flow rate, locality of flow, timing, radio stations, preset temperatures into memory, maximum temperature allowed, or any other desired input to the control electronics.
9. A user interface according to claim 7 wherein said displays are used to display information to the user such as temperature set point, actual temperature,